

INDEX TO VOLUME XIV.

Ablepharon Henrici, 197.
 A card, 228.
 A correction, 239, 240.
 Acronycta lepusculina, 221.
 Actias luna, development of, 98.
 Aesha heros, 56.
 Agonoderus comma, 104.
 " pallipes, 104.
 " rugicollis, 105.
 Agrotis annexa, preparatory stages of, 207.
 " *Dollii*, n. s., 216.
 " *hospitialis*, n. s., 184.
 " *incivis*, 240.
 " *ubricana*, 240.
 " *nivellina*, 216.
 Aletia argillacea, 9, 99, 150.
 Alypia octomaculata, 228.
 Amara interstitialis, 7.
 Amer. Assoc. Adv. Sci., meeting of, 136.
 Ancyloxypha leuca, n. s., 5.
 Annual Meeting Ent. Soc. Ont., 137, 140, 177.
 Antapla, 74.
 Anthomyia betae, 96.
 Anthomyiidae leaf mining, 96.
 Antigaster mirabilis, 35.
 Anytus sculptus var. planus, 183.
 Apamea inquiesita, 170.
 " list of species of, 170.
 Apatura celitis, 53.
 " flora, 25.
 " herse, 53.
 " lycaea, 53.
 Aphididae, notes on, 43.
 " of Florida, 88.
 Aphis lonicerae, 13.
 Apple-tree pest, a new, 30.
 Argynnis aclesta, 51.
 " columbina, 151.
 " cybele, 23, 51.
 " diana, 22, 51.
 " idalia, 20, 51.
 Arsilonche albovenosa, 197.
 " Henrici, 170.
 Ashmead, Wm. H., articles by, 35, 88.

 Bessula, 74.
 Birds, revised check list of, 140.
 Book notices, 118, 139, 220.
 Bowles, G. J., articles by, 101, 138.
 Brachymyia, n. g., 77.
 " *lupina*, n. s., 77.
 " *nigripes*, n. s., 78.
 Brachypalpus pulcher, n. s., 79.
 Bucculatrix ambrosiae-foliella, larva of, 153.
 Buprestis striata, 7.
 Butterflies, list of, taken in Dacotah and Montana, 6.
 Bysodes obrussata, 111.

 Cabbage butterfly, English, 1, 7, 18, 39, 99, 218.
 " " Southern, 1, 18.

 Callipterus, American species of, 14.
 " *hyperici*, 13.
 " *trifoli*, 14.
 " *ulmifolii*, 13.
 Callopertix, 178.
 Camponotus amella, 234.
 Capis, n. g., 20.
 " *chrysota*, n. s., 20, 100, 119, 139.
 Catocala polygama var. amida, 120.
 " Walshii, 47.
 Catocalae, list of, taken at Frankford, Pa., 59.
 " of Illinois, 119.
 Chalcididae of Florida, 35.
 " on some, 48.
 Chalcorpha liberta, 7.
 " virginianica, 7.
 Chambers, V. T., articles by, 153, 180.
 Chariclea, 183.
 Chermes alni, 61.
 Chionobas tarpeia, 120.
 " Uhleri, 4.
 " *tarpeia*, n. s., 2, 28.
 Choraspilates Arizonaaria, 109.
 Chorthippus floccosus, 97.
 Chrysomela elegans, 7.
 " *labyrinthica*, 57.
 Chrysopa, mouth of, 176.
 Cicindela limbalis, 8.
 " *longilabris*, 8.
 " *12 guttata*, 8.
 " *purpurea*, 7.
 " *sex-guttata*, 7, 8.
 " *vulgaris*, 7.
 Clytus pictus, 200.
 Clarkson, F., article by, 223.
 Claypole, E. W., article by, 17.
 Clothes moths, 166.
 Coccophagus *annulipes*, n. s., 37.
 Cold applied to larvae, effects of, 22.
 Collas christina, 55.
 " *erythraeme*, 50.
 " *philodice*, 50.
 Colopha compressa, 15.
 Conotrachelus nenuphar, 17.
 Conservula, 212.
 Copaeodes *Wrightii*, n. s., 152.
 Copablepharon *longipenne*, n. s., 169.
 " *subflavidens*, n. s., 169.
 Coquillet, D. W., article by, 60.
 Correspondence, 38, 60, 98, 119, 137, 180, 200, 218,
 239.
 Cucullia *Montanae*, n. s., 175.
 Cyclaea, n. g., 174.
 " *frondaria*, n. s., 174.
 Cydene pictus, 200, 240.
 " *robiniae*, 200, 240.
 Cymataphora *dataria*, n. s., 173.

 Debis Portlandia, preparatory stages of, 84.
 Diplosis, parasitic species of, 146, 237.
 " *grassator*, n. s., 237.
 Dodge, Charles R., articles by, 30, 93.

Dodge, G. M., article by, 39.
 Donation, 40.
 Dragon flies, migration of, 56.
 Drepapodus puber, 107.
 " sesquilinea, 107.
 " varus, 108.
 Drosophila aceti, 102.
 " ampelophila, 101, 137.
 " cellaris, 102.
 " flava, 102.
 " funebris, 102.
 Dury Charles, article by, 176.

Epantheria scribonia, 113.
 Edwards, W. H., articles by, 2, 21, 28, 29, 49, 84, 190, 152, 163, 189, 194, 201, 229.
 Ellipsis bibularia, 108.
 " endropiaria, 109.
 " pellucidaria, 108.
 Endropis arefactaria, 108.
 " vinosaria, 108.
 Entomological notes for 1881, 17.
 " Society of Ontario, annual meeting of, 137, 140, 177.
 Entomology, elementary work on, 118.
 " for beginners, 41, 81, 113, 221.

Epinycit, 75.
 Errata, 180, 239, 240.
 Eucateria variaria, 109.
 Euchaetes, list of species of, 196.
 Eudaemonia Streckeri, 128.
Eugeniamyia, n. g., 80.
 " *rufa*, n. s., 80.
 Eugonia subsignaria, 30.
 " *vidularia*, n. s., 173.
 Euleucophaeus, 214.
 Eupelmus, 35.
 " *rosea*, n. s., 36.
 " *cynipidis*, n. s., 36.
 Eupethelia *gypsata*, 188.
 Euspseudosoma *floridum*, n. s., 187.
 Euptoeta claudia, 219.
 Eustrotia *flaviguttata*, n. s., 187.

Fager, D. B., articles by, 120, 130.
 Fernald, G. H., article by, 166.
 Fidonia notataria, early stages of, 199.
 Field notes, 1881, 7.
 Fletcher James, article by, 218.
Folta, n. g., 174.
 " *armata*, n. s., 175, 181.
 " *minorata*, 181.
Fotella, n. g., 181.
 " *notatalis*, n. s., 181.
 French, G. H., articles by, 9, 33, 48, 97, 180, 207, 240.
 Fyles, Rev. T. W., articles by, 198, 217.

Gall mite on nettle tree, 198.
 Gauromes *cyanipennis*, 58.
 Gehring, Geo. J., article by, 72.
 Gelechia *gallaeolidaginis*, 161.
 Geometridae, North American, 106.
 Glaucopteryx aurata, 186.
 Gonioiba *titirus*, 160, 200.
 Goodell, L. W., article by, 109.
 Goodhue, Chas. F., article by, 73.
 Gortyna impecuniosa, 184.
 Grape berry moth, 178.
 " *phylloxera*, 121, 144.

Graptia comma, preparatory stages of, 189.
 " *interrogationis*, preparatory stages of, 201.
 Grote, A. R., articles by, 16, 29, 32, 46, 47, 74, 106, 115, 116, 119, 128, 134, 169, 181, 195, 196, 212, 234, 240.
 Gyros, list of species of, 195.

Hadena *anatra*, n. s., 19.
 " *hastata*, n. s., 217.
 " *idonea*, n. s., 18.
Hadronyia, n. g., 78.
 " *grandis*, n. s., 79.
 Hagen, Dr. H. A., articles by, 11, 39, 180.
 Hamilton John, article by, 104.
 Harrington, W. H., articles by, 7, 81, 224.
 Heliomata, 110.
 Helophilus *rimosa*, n. s., 216.
 Heliothis nuchalis, 186.
 Helotropha, list of species of, 171.
 " *sera*, 170.
 Hessian fly, 139, 142.
 Holophora arctata, 127.
 Homoptera edusa, 133, 180.
 " *lunata*, preparatory stages of, 130, 180.
 " *nigricans*, 134.
 " *Saundersii*, 133, 180.
Homopyralis miserulata, n. s., 185.
 Hop-vine borer, 93.
 Horn, Dr. Geo. H., article by, 240.
 Hoy, Dr. P. R., article by, 100.
 Hybernia tilitaria, 222.
 Hydriomena *reflata*, n. s., 186.
 Hylobius pales, 8.
 Hyperchia zephyria, 215.

Ichtyura *palla*, n. s., 33.
 Insects, fossil, bibliography of, 119.
 " injurious to forest trees, 118.
 " injurious to fruit trees in California, 139, 148.
 " noxious and beneficial, 119.
 " physiological arrangement of, 111, 134.
Isosoma *Allynii*, n. s., 9, 48.
 " *almyri*, n. s., 10, 48, 97.
 " *hordei*, 98.
 " *tritic*, 97.
Ithycerus curculionides, 8.

Jack, John G., article by, 219.

Kellogg, D. S., article by, 161.

Lachnostenra fusca, 17.
 Last year's collecting, 57.
 Leopard moth, 113.
 Lemnias *mai*, 25, 50.
 " *Palmeri*, 25, 50.
Leucania phragmitidicola, 197.
Libythea Bachmanni, 49.
Limenitis ursula, 29.
 Lime-tree measuring worm, 222.
 Lintner, J. A., article by, 96.
 Lobesia botrana, 178.
 Long-stings, 81, 223.
Luxuriosa, 175.
Lycæm aster, n. s., 194.
 " *pseudargiolus*, 50.
 Lyman, H. H., article by, 228.
Lythria fulvaria, n. s., 174.

Mamestra *glaciata*, *n. s.*, 170.
 " *gnata*, *n. s.*, 170.
Marmopteryx *sponsata*, *n. s.*, 215.
Marten John, article by, 210.
Mategramma *rubrosuffusa*, 172.
Meliceptris *celeris*, 172.
Merapioidus *villosus*, 77.
 Moffat, J. Alston, article by, 57, 98, 200.
 Monell Joseph, article by, 13.
 Moths, North American, 46.
 Mundt, A. H., article by, 56.

Nematocampa *expunctaria*, 110.
Nematus *ventricosus*, 147.
Neonympha *areolatus*, preparatory stages of, 163.
 " *canthus*, 165.
Nocuidae, certain forms of, 74.
 " general characters of, 65.
 " of North America, essay on, 220.
Nomenclature *Zoologus*, 116.
 North American insects, oldest figures of, 11.

Obituary, 176.
Oncocnemis *griseicollis*, *n. s.*, 19.
Ophion *macrurum*, 43.
 Osborn, Herbert, article by, 61.
 Ottawa Field Naturalists' Club, transactions of, 220.
Oxychemis, *n. g.*, 182.
 " *adversa*, *n. s.*, 182.
Oxylos *citrinellus*, 172.

Paedisca *Scudderiana*, a gall maker, 161.
Papilio *ajax*, 24, 26, 50.
 " *cresphontes*, 138, 180, 219.
 " *machaon*, 21, 178.
 " *marcellus*, 27.
 " *marsupia*? 177.
 " *philenor*, 21.
 " *podalirius*, 180.
 " *polydamus*, 120.
 " *sinon*, 180.
 " *telamonides*, 27.
 " *Walshii*, 27.
Pea fungus, 150.
Pemphigus *acris*, *n. s.*, 16.
 " *tessellata*, 61.
Phoebia *rimosa*, early stages of, 73.
Phorodon *mahaleki*, 13.
Photinus *angulatus*, 8.
Phycidae, on two genera of, 29.
Phylloxera *vastatrix*, 121, 144.
Pieris *protodice*, 1, 18, 99.
 " *rapae*, 1, 7, 18, 39, 99, 218.
 " *virginiensis*, 57.
Pipiza *radicum*, 127, 146.
Pippona, 75.
Plagiomimicus, 75, 182.
Plagodes, 109.
 " *floscularia*, 109.
 " *rosaria*, 110.
Platycerus *quercus*, 7.
Platysamia, 213.
Pleonectiptera *historialis*, *n. s.*, 188.
Plusia *precisionis*, 60.
 " *simplex*, 60.
Plum *curculio*, 17.
Poleta, 75.
Poletes *annulatus*, 7.
Polyphemus moth, 41.

 Poplar dagger-moth, 221.
Psephenus *Lecontei*, 72.
Pseudohazis, 274.
Pyrameis *atalanta*, preparatory stages of, 229.
Pygarctia *abdominalis*, 20.

 Reed, E. B., articles by, 160, 180.
 Republication of vols. 1 and 2, *Can. Ent.*, 151.
Rheumaptera *immedia*, *n. s.*, 184.
Rhyssa *atratra*, 82, 223.
 " *lunator*, 82, 223.
Ripogenus *pulcherrimus*, 183.

 Samia *cecropia*, 177.
 " *columbia*, 177.
Saperda *discoidea*, 58.
Satyrus *alope*, 51.
Saunders, W., articles by, 1, 41, 113, 118, 121, 136,
 140, 176, 177, 178, 220, 221, 237.
Saunders, W. E., article by, 140.
Segments, number of larval, 52.
Sericia *sericea*, 7.
Siewers, Chas. G., death of, 176.
Siphonophora *asclepiadis*, 89.
 " *citrifolii*, 91.
 " *rosea*, 88.
 " *var. floride*, 88.
 " *rubi*, 89.
 " *solanifolii*, *n. s.*, 92.
 " *viticola*, 89.
 " *dimorphism* among the, 90.
Skinner, Harry, article by, 20.
Smith, John B., articles by, 65, 100, 139, 197.
 Southern cabbage butterfly, 1.
Sphyraecephala *brevicornis*, 218.
Spragueia, 172.
 " on the species of, 32.
 " *funeralis*, 33.
 " *pardalis*, 33.
 " *sordida*, *n. s.*, 217.
 State Entomologist for Illinois, a new, 237.
Stenosthenus *notatus*, 58.
Stibadium, 76.
Stiria, 76.
Swinton, A. H., article by, 111.
Synodoida *insperata*, 176.
Syrphidae, North American, 77.
Systema *frontalis*, 147.

Tabanidae, new, 210.
Tachycellus *atrimedius*, 104.
Tamili *lucens*, 175.
 " *tumida*, 186.
Telea *polyphemus*, 41.
Tetracis *Coloradarica*, 107.
 " *lorata*, 107.
Tetraneura *graminis*, *n. s.*, 16.
 " *ulmi*, 16.
Thalpochares *perita*, *n. s.*, 171.
Thamnomona *petalidaria*, *n. s.*, 185.
 " *quadraria*, *n. s.*, 185.
Thecla *calanus*, on eggs of, 52.
Therispletex *Californicus*, *n. s.*, 210.
 " *captonis*, *n. s.*, 211.
 " *centron*, *n. s.*, 211.
 " *haemaphoruss*, *n. s.*, 211.
Tinea *biselliella*, 167, 169.
 " *flavifrontella*, 166.
 " *pellionella*, 167, 169.
 " *tapetzella*, 168, 169.

Tineola biselliella, 169.
Tornos *escaria*, *n. s.*, 186.
" *interruptaria*, *n. s.*, 185.
" *ochrofuscaria*, 186.
Tortricidae, Fernald's catalogue of, 115.
Tortricodes bifidalis, 66.
Trama *griseipennis*, *n. s.*, 183.
Transportation of eggs and young larvae, 24.
Tremex columba, 225.
Trichogramma pretiosa, 147.
Tripudia, notes on the genus of, 32, 172.
" *Exuvia*, *n. s.*, 173.
" *versuta*, 172.
" list of species of, 195.
Tyragnyphus phylloxera, 121, 127, 146.

Uroceridae, on the occurrence of some species of, 224.
Urocerus albicornis, 227.
" *bizonatus*, 227.

Urocerus nitidus, 226.

Vanessa antiope, 7.
" *Milberti*, 218.
Van Wagenen G H., article by, 138.

Williston, Dr. S. W., articles by, 77, 138.

Xiphydria albicornis, 224.
" *mellipes*, 225.

Yeast as an insect destroyer, 38.
Yrias *clientis*, *n. s.*, 236.
" *crudelis*, *n. s.*, 237.
" *repentis*, 236.

Zotheca viridifera, 217.

O. J. S. Exch

L

isech

C